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#### **Amendments to the Claims**

1. (Previously Presented) A compound represented by the structure of formula 1:

wherein R is a residue of a hydroxamic acid derivative histone deacetylase inhibitor; and  $R_a$  is represented by the structure:

$$R_b$$
 or  $R_c$ 

wherein  $R_b$  is a hydrogen or an unsubstituted or substituted ethyl, isopropyl, butyl, isobutyl, sec-butyl, t-butyl, alkynyl, aryl, cycloalkyl, heterocyclyl, heterocyclyl, alkylaryl, alkylcycloalkyl, alkylheterocyclyl, alkylheteroaryl or an amino acid residue;  $R_c$  is a hydrogen or an unsubstituted or substituted alkyl, alkenyl, alkynyl, aryl, cycloalkyl, heterocyclyl, heterocyclyl, alkylaryl, alkylcycloalkyl, alkylheterocyclyl, alkylheteroaryl or an amino acid residue and

R<sub>d</sub> is hydrogen or an amino protecting group;

or a pharmaceutically acceptable salt thereof.

2. (Previously Presented) The compound according to claim 1, wherein  $R_b$  is a hydrogen, ethyl, isopropyl, butyl, isobutyl, sec-butyl, t-butyl, phenyl, benzyl, alkylphenyl, napththyl or pyridyl.

R<sub>c</sub> is a hydrogen, methyl, ethyl, isopropyl, butyl, isobutyl, sec-butyl, t-butyl, phenyl, benzyl, alkylphenyl, napththyl or pyridyl.

3. (Previously Presented) The compound according to claim 1, wherein R<sub>a</sub> is selected from the group consisting of:

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and wherein m is an integer of 1 to 10.

4. (Currently Amended) The A compound according to claim 1, represented by the structure:

$$R_2$$
  $C$   $CH_2)n$   $C$   $CH_2$   $C$   $CH_2$ 

wherein each of R<sub>1</sub> and R<sub>2</sub> are independently the same as or different from each other and are a hydrogen atom, a hydroxyl group, a substituted or unsubstituted, branched or unbranched alkyl, alkenyl, cycloalkyl, aryl, heterocyclyl, heteroaryl, alkylcycloalkyl, alkylaryl, alkylheterocyclyl, alkylheteroaryl, arylalkyloxy, aryloxy, or pyridine group, or R<sub>1</sub> and R<sub>2</sub> are bonded together to form a nitrogen containing heterocyclic ring optionally containing one or more additional heteroatoms, and n is an integer of 4 to 8;

R<sub>a</sub> is represented by the structure:

$$R_b$$
 or  $R_c$ 

wherein R<sub>b</sub> and R<sub>c</sub> are independently of each other a hydrogen or an unsubstituted or substituted alkyl, alkenyl, alkynyl, aryl, cycloalkyl, heterocyclyl, heteroaryl, alkylaryl, alkylcycloalkyl, alkylheterocyclyl, alkylheteroaryl or an amino acid residue; and R<sub>d</sub> is hydrogen or an amino protecting group.

5. (Currently Amended) The compound according to claim 1, represented by the structure:

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 $R_b$  and  $R_c$  are independently of each other a hydrogen, methyl, ethyl, isopropyl, butyl, isobutyl, secbutyl, t-butyl, phenyl, benzyl, alkylphenyl, napththyl or pyridyl;

wherein n is an integer of 4 to 8.

6. (Currently Amended) The compound according to claim 5+, represented by the structure:

R<sub>a</sub> is selected from the group consisting of:

and wherein m is an integer of 1 to 10.

- 7. Cancelled.
- 8. Cancelled.
- 9. (Previously Presented) The compound according to claim 1, represented by the structure:

HOHN
$$CH = CH$$

$$NHOR_a R_aOHN$$

$$(9)$$

$$(10)$$

10. (Previously Presented) The compound according to claim 1, represented by the structure:

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$$R_{\uparrow} \qquad C \qquad NH \qquad (CH_2)n \qquad C \qquad NH \qquad OR_2$$

$$(11)$$

wherein R<sub>1</sub> is a substituted or unsubstituted phenyl, piperidino, thiazolyl, 2-pyridinyl, 3-pyridinyl or 4-pyridinyl and n is an integer of 4 to 8.

11. (Previously Presented) The compound according to claim 1, represented by the structure:

$$R_1$$
— $HN$ — $C$ — $NH$ — $(CH_2)n$ — $C$ — $N$ — $OR_a$ 

$$(12)$$

wherein R<sub>1</sub> is a substituted or unsubstituted phenyl, piperidino, thiazolyl, 2-pyridinyl, 3- pyridinyl or 4-pyridinyl and n is an integer of 4 to 8.

12. (Previously Presented) The compound according to claim 1, represented by the structure:

wherein A is an amide moiety, R<sub>1</sub> and R<sub>2</sub> are each selected from substituted or unsubstituted aryl, arylalkyl, naphthyl, cycloalkyl, cycloalkylamino, pyridineamino, piperidino, 9-purine-6-amino, thiazoleamino, hydroxyl, branched or unbranched alkyl, alkenyl, alkyloxy, aryloxy, arylalkyloxy, pyridyl, quinolinyl or isoquinolinyl; and n is an integer of 3 to 10.

13. (Previously Presented) The compound according to claim 12, represented by the structure:

14. (Previously Presented) The compound according to claim 12, represented by the structure:

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15. (Previously Presented) The compound according to claim 1, represented by the structure:

$$R_1$$
 $R_2$ 
 $R_3$ 
 $R_3$ 
 $R_3$ 
 $R_4$ 
 $R_4$ 
 $R_5$ 
 $R_5$ 
 $R_5$ 
 $R_5$ 
 $R_5$ 

wherein A is an amide moiety, R<sub>1</sub> and R<sub>2</sub> are each selected from substituted or unsubstituted aryl, arylalkyl, naphthyl, cycloalkyl, cycloalkylamino, pyridineamino, piperidino, 9-purine-6-amino, thiazoleamino, hydroxyl, branched or unbranched alkyl, alkyloxy, aryloxy, arylalkyloxy, pyridyl, quinolinyl or isoquinolinyl; R<sub>3</sub> is hydrogen, a halogen, a phenyl or a cycloalkyl moiety and n is an integer of 3 to 10.

16. (Previously Presented) The compound according to claim 15, represented by the structure:

17. (Previously Presented) The compound according to claim 15, represented by the structure:

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wherein n is an integer from about 3 to 10.

18. (Previously Presented) The compound according to claim 1, represented by the structure:

$$R_1$$
 $R_2$ 
 $R_1$ 
 $R_2$ 
 $R_3$ 
 $R_4$ 
 $R_4$ 
 $R_5$ 
 $R_5$ 
 $R_5$ 
 $R_5$ 
 $R_6$ 
 $R_6$ 

-wherein L is a linker selected from the group consisting of an amide moiety, O-, -S-, -NH-, NR, -CH<sub>2</sub>-, -(CH<sub>2</sub>)<sub>p</sub>-, -(CH=CH)-, phenylene, cycloalkylene, or any combination thereof wherein R is a substituted or unsubstituted C<sub>1</sub>-C<sub>5</sub> alkyl; and wherein each of R<sub>1</sub> and R<sub>2</sub> are independently a substituted or unsubstituted aryl, arylalkyl, naphthyl, cycloalkyl, cycloalkylamino, pyridineamino, piperidino, 9-purine-6-amino, thiazoleamino, hydroxyl, branched or unbranched alkyl, alkenyl, alkyloxy, aryloxy, arylalkyloxy, pyridyl, quinolinyl or isoquinolinyl; p is an integer of 0 to 10.

19. (Previously Presented) The compound according to claim 18, represented by the structure:

20. (Previously Presented) The compound according to claim 18, represented by the structure:

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$$R_1$$
 $R_2$ 
 $R_2$ 
 $R_3$ 
 $R_4$ 
 $R_5$ 
 $R_6$ 
 $R_7$ 
 $R_8$ 
 $R_8$ 
 $R_9$ 
 $R_9$ 

### 21. (Previously Presented) The compound according to claim 1, represented by the structure:

$$R_2$$
— $(HN-CO)_{p2}$ 
 $CH_2$ 
 $N$ — $(CO)_q$ — $(CH_2)_n$ 
 $C$ — $NHOR$ 
 $H_2C$ 
 $(CO-NH)_{p1}$ — $R_1$ 
 $(29)$ 

wherein

n is 2, 3, 4, 5, 6, 7 or 8;

q is 0 or 1;

p<sub>1</sub> and p<sub>2</sub> are independently of each other 0 or 1;

 $R_1$  and  $R_2$  are independently of each other an unsubstituted or substituted aryl, heteroaryl, cycloalkyl, heterocyclyl, alkylaryl, alkylheteroaryl, alkylcycloalkyl or alkylheterocyclyl; or when  $p_1$  and  $p_2$  are both 0,  $R_1$  and  $R_2$  together with the  $-CH_2$ -N- $CH_2$ - group to which they are attached can also represent a nitrogen-containing heterocyclic ring; or when at least one of  $p_1$  or  $p_2$  is not 0,  $R_1$  or  $R_2$  or both can also represent hydrogen or alkyl.

#### 22. (Previously Presented) The compound according to claim 1, represented by the structure:

wherein

n is 2, 3, 4, 5, 6, 7 or 8;

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R<sub>1</sub> and R<sub>2</sub> are independently of each other a hydrogen or an unsubstituted or substituted alkyl, aryl, heteroaryl, cycloalkyl, heterocyclyl, alkylaryl, alkylheteroaryl, alkylcycloalkyl or alkylheterocyclyl.

23. (Previously Presented) The compound according to claim 1, represented by the structure:

wherein

n is 2, 3, 4, 5, 6, 7 or 8;

R<sub>1</sub> and R<sub>2</sub> are independently of each other a hydrogen or an unsubstituted or substituted alkyl, aryl, heteroaryl, cycloalkyl, heterocyclyl, alkylaryl, alkylheteroaryl, alkylcycloalkyl or alkylheterocyclyl.

24. (Previously Presented) The compound according to claim 1, represented by the structure:

wherein

n is 2, 3, 4, 5, 6, 7 or 8;

R<sub>1</sub> and R<sub>2</sub> are independently of each other an unsubstituted or substituted aryl, heteroaryl, cycloalkyl, heterocyclyl, alkylaryl, alkylheteroaryl, alkylcycloalkyl or alkylheterocyclyl; or R<sub>1</sub> and R<sub>2</sub> together with the –CH<sub>2</sub>-N-CH<sub>2</sub>- group to which they are attached can also represent a nitrogen-containing heterocyclic ring.

25. (Previously Presented) The compound according to claim 1, represented by the structure:

$$R_1$$
 $N$ 
 $R_2$ 
 $R_2$ 
 $R_3$ 

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wherein

n is 2, 3, 4, 5, 6, 7 or 8;

 $R_1$  and  $R_2$  are independently of each other an unsubstituted or substituted aryl, heteroaryl, cycloalkyl, heterocyclyl, alkylaryl, alkylheteroaryl, alkylcycloalkyl or alkylheterocyclyl; or  $R_1$  and  $R_2$  together with the  $-CH_2$ -N- $CH_2$ - group to which they are attached can also represent a nitrogen-containing heterocyclic ring.

## 26. (Previously Presented) The compound according to claim 1, represented by the structure:

$$\begin{array}{c|c} A & \\ \hline \\ S & \\ \hline \\ (34) & \\ \end{array}$$

wherein A is alkyl, aryl or a group selected from

wherein  $R_1$ - $R_{16}$  are independently of each other a hydrogen or an unsubstituted or substituted alkyl, aryl, cycloalkyl, heterocyclyl, alkylaryl, alkylcycloalkyl or alkylheterocyclyl; or one or more of  $R_1$  and  $R_2$ ,  $R_6$  and  $R_7$ , and  $R_{11}$  and  $R_{12}$ , together with the nitrogen atom to which they are attached, form a nitrogen-containing heterocyclic ring; and

1, p and q are independently of each other 0, 1 or 2.

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# 27. (Previously Presented) The compound according to claim 1, represented by the structure:

A—(B)n 
$$\sim$$
 S  $\sim$  NHORa  $\sim$  (36)

wherein

A is alkyl, aryl or a group selected from:

wherein  $R_1$ - $R_{16}$  are independently of each other a hydrogen or an unsubstituted or substituted alkyl, aryl, cycloalkyl, heterocyclyl, alkylaryl, alkylcycloalkyl or alkylheterocyclyl; or one or more of  $R_1$  and  $R_2$ ,  $R_6$  and  $R_7$ , and  $R_{11}$  and  $R_{12}$ , together with the nitrogen atom to which they are attached, form a nitrogen-containing heterocyclic ring;

B is

n is 0 or 1; and

l, p and q are independently of each other 0, 1 or 2.

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28. (Previously Presented) A pharmaceutical composition comprising the compound of claim 1 or a pharmaceutically acceptable salt thereof, and a pharmaceutically acceptable carrier.

- 29. (Previously Presented) A method for the treatment of cancer comprising the step of administering to a mammal a therapeutically effective amount of the compound of claim 1.
- 30. Cancelled.
- 31. Cancelled.
- 32. Cancelled.
- 33. (Currently Amended) The compound of claim <u>4</u>+ selected from the group consisting of:

Octanedioic acid phenylamide (7-phenylcarbamoyl-heptanoyloxy)-amide;

Octanedioic acid acetoxy-amide phenylamide;

Octanedioic acid (biphenyl-4-carbonyloxy)-amide phenylamide;

Octanedioic acid benzoyloxy-amide phenylamide;

Octanedioic acid (naphthalene-2-carbonyloxy)-amide phenylamide;

Octanedioic acid (naphthalene-1-carbonyloxy)-amide phenylamide;

Octanedioic acid (3-methoxy-benzoyloxy)-amide phenylamide;

Octanedioic acid (4-methoxy-benzoyloxy)-amide phenylamide;

Octanedioic acid (2-methoxy-benzoyloxy)-amide phenylamide;

Octanedioic acid (4-methyl-benzoyloxy)-amide phenylamide;

Octanedioic acid (4-chloro-benzoyloxy)-amide phenylamide;

Octanedioic acid (3-phenyl-acryloyloxy)-amide phenylamide;

Octanedioic acid phenylamide (pyridine-3-carbonyloxy)-amide;

Octanedioic acid (4-butyl-benzoyloxy)-amide phenylamide;

Octanedioic acid phenylamide (3-phenyl-propionyloxy)-amide;

Octanedioic acid phenylamide (4-phenyl-butyryloxy)-amide;

[1-Benzyl-2-oxo-2-(7-phenylcarbamoyl-heptanoylaminooxy)-ethyl]-carbamic acid benzyl ester;

and

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[1-Benzyl-2-oxo-2-(7-phenylcarbamoyl-heptanoylaminooxy)-ethyl]-carbamic acid tert-butyl ester;

Or a stereoisomer thereof;

Or a pharmaceutically acceptable salt thereof;

Or a pharmaceutically acceptable salt of the stereoisomer thereof.

34. (Currently Amended) The compound of claim <u>4</u>4 that is

or a pharmaceutically acceptable salt thereof.

35. (Currently Amended) The compound of claim <u>4</u>1 that is

- 36. (Previously Presented) A pharmaceutical composition comprising the compound of claim 33 and a pharmaceutically acceptable carrier.
- 37. (Previously Presented) A method for the treatment of cancer comprising the step of administering to a mammal a therapeutically effective amount of the compound of claim 33.